PURAFIL ENVIRONMENTAL CORROSIVITY REPORT

25-Jun-2010

Company: 111405

Room Area ID: Reference #:



 Sales Order #:
 C002687

 CCC Panel #:
 P67642

 Date In:
 03-Jun-2010

 Date Out:
 17-Jun-2010

Days In Service: 14

CCC Panel # P67642

ISA Class G1 Mild

Copper Corrosion 135 Å/30 Days

Silver Corrosion 313 Å/30 Days

(see next page for complete analysis)

Summary for PURAFIL CCC # P67642

The electrolytic reduction analysis on Corrosion Classification Coupon #P67642 shows the presence of only very low concentrations of contaminants in the environment tested. The hydrogen sulfide level is not expected to exceed 3 ppb and the sulfur dioxide level should be less than 10 ppb. During the test period, corrosion, as shown by the copper coupon, is not a factor in determining equipment reliability.

Please note: Copper's reactivity is sensitive to temperature and relative humidity and can therefore exhibit seasonal variation. For example, below 30% relative humidity (typical for heated indoor air in winter), copper readings will be dramatically reduced. However, silver's reactivity is not affected by temperature and relative humidity. Due to the elevated level of film growth on the silver coupon, corrosion may be a factor in determining equipment reliability; continued monitoring is recommended.

Your local representative for additional information and assistance is:

Environmental Health and Eng

117 Fourth Avenue, Needham MA 02494, USA

tminegishi@eheinc.com

Purafil, Inc. / 2654 Weaver Way, Doraville GA 30340 USA / (770) 662-8545 / (770) 263-6922 Email: purafil@purafil.com / Internet: http://www.purafil.com

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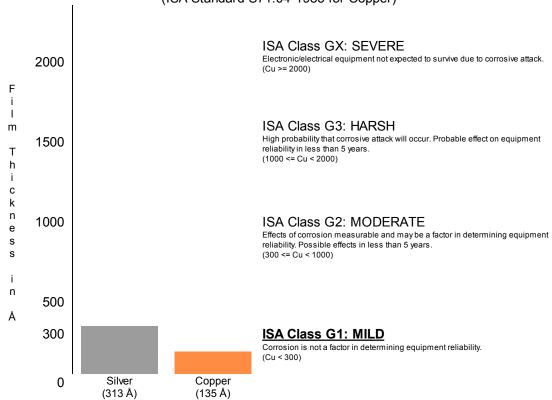
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PURAFIL CCC # P67642 Analysis Results

Corrosion Film Composition Projections				Gold Coupon - Magnified 20x
	<u>30 Days</u>	1 Year	<u>5 Year</u>	Magriffled 20x
Copper Films Cu ₂ S	0 Å	0 Å	0 Å	
Cu ₂ O	135 Å	180 Å	236 Å	
Unknowns	0 Å	0 Å	0 Å	
Totals	135 Å	180 Å	236 Å	
Silver Films	0.8	0.8	0.8	
AgCl	0 Å	0 Å	0 Å	
Ag ₂ S	216 Å	2635 Å	13177 Å	
Unknowns	97 Å	1176 Å	5882 Å	
Totals	313 Å	3811 Å	19059 Å	
Gold Pore Corrosion: Note: 1000 Å = 0.1 micron				

Equipment Reliability Correlation

(ISA Standard S71.04-1985 for Copper)



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